

FIG. 1

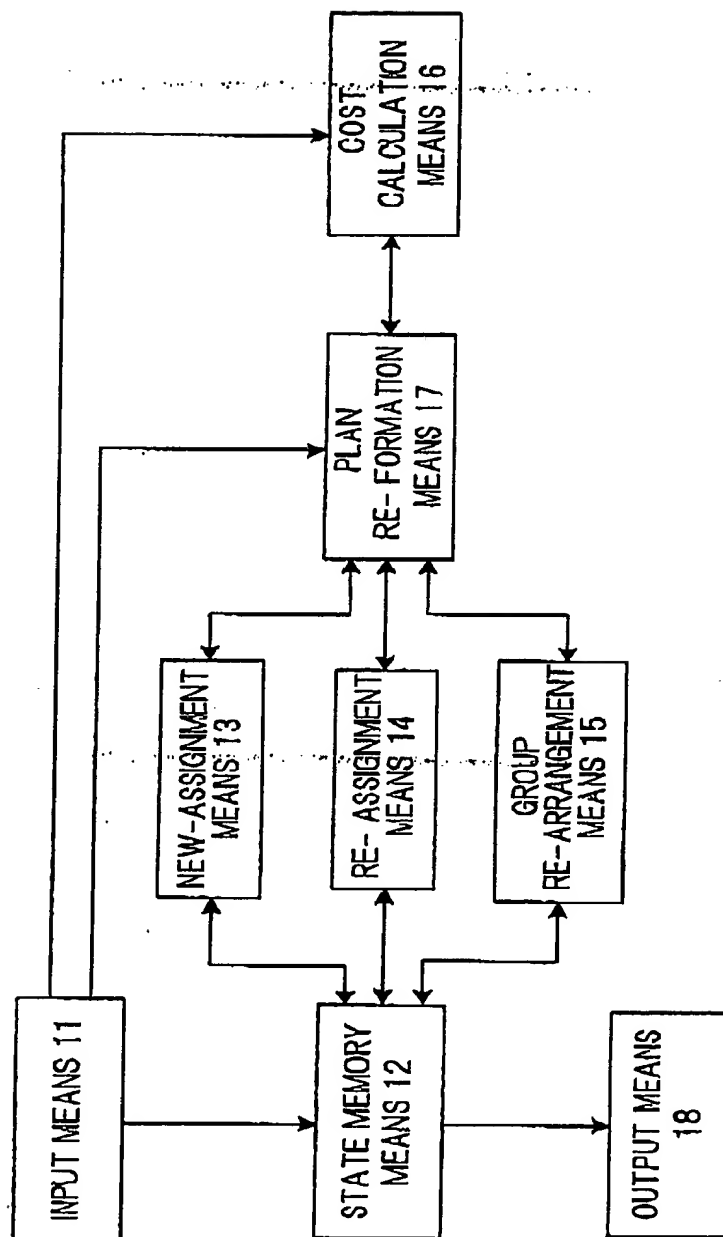


FIG.2

DESTINATION	LOCATION (X, Y)	KIND OF TASK
1	(34,93)	TASK C
2	(78,46)	TASK A
3	(13,5)	TASK A,B
4	(4,72)	TASK B
5	(52,12)	TASK B
6	(22,10)	TASK A
7	(46,33)	TASK B
8	(69,81)	TASK B
9	(9,85)	TASK C
10	(22,54)	TASK A
11	(29,47)	TASK C

FIG.4

MEMBER	MOBILE CAPABILITY (SPEED OF MOVEMENT)	WORKING CAPABILITY (TIME REQUIRED FOR TASK)		
		TASK A	TASK B	TASK C
1	7	3	2	100
2	4	6	2	3
3	5	2	250	1
4	15	10	12	8
5	3	7	10	5
6	10	5	8	200
7	8	14	5	4

FIG.3

GROUP	ATTRIBUTE	GROUP CONSTRAINTS				INITIAL GROUP FORMATION
		MAXIMUM NUMBER OF MEMBERS	ACCOMMODABLE MEMBERS	GROUP FORMATION	RELATIONSHIP OF MEMBERS IN GROUP	
1	VARIABLE	1	1, 2, 5, 7	—	—	5
2	INVARIABLE	—	—	2, 6	TWO MEMBERS ARE TO BE WITHIN A PREDETERMINED DISTANCE.	—
3	VARIABLE	3	ANY MEMBERS	—	THREE MEMBERS ARE TO BE ALIGNED EQUIDISTANTLY	1, 4

FIG.5

GROUP	GROUP FORMATION	VISITING PLAN : MEMBERS - DESTINATIONS (TASK)			
		1	2	3	4
1	7	7-10(A)	7-7(B)		
2	2, 6	2-3(A, B)	6-6(A)	6-8(B)	2-11(C)
3	1, 5	1-9(C)	5-1(C)	5-5(B)	

FIG.6

DESTINATION	1	2	3	4	5	6	7	8	9	10	11
GROUP NUMBER	3	UNAS-SIGNED	2	UNAS-SIGNED	3	2	1	2	3	1	2

FIG.7

MEMBER	1	2	3	4	5	6	7
GROUP NUMBER	3	2	UNAS-SIGNED	UNAS-SIGNED	3	2	1

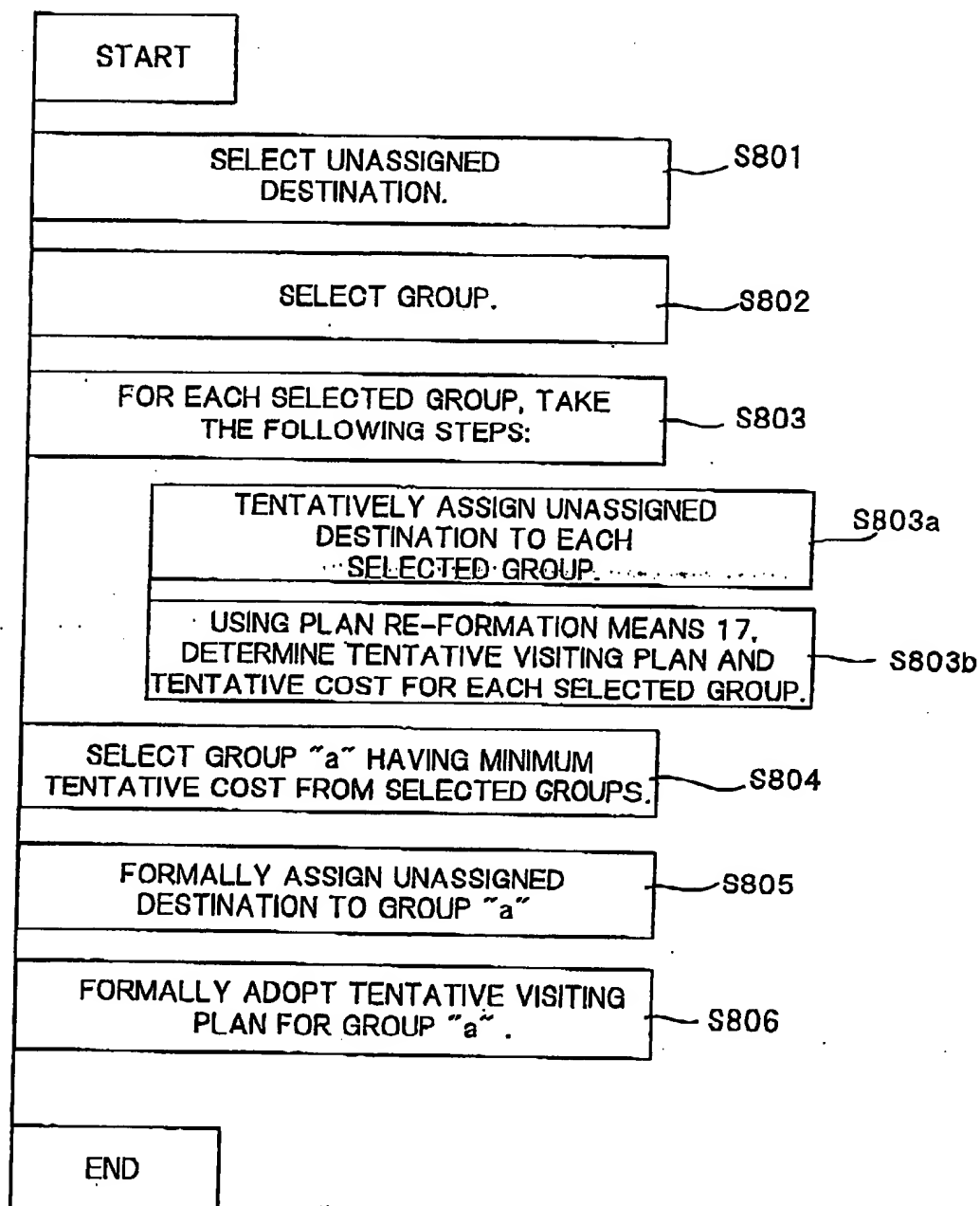
FIG. 8

FIG. 9

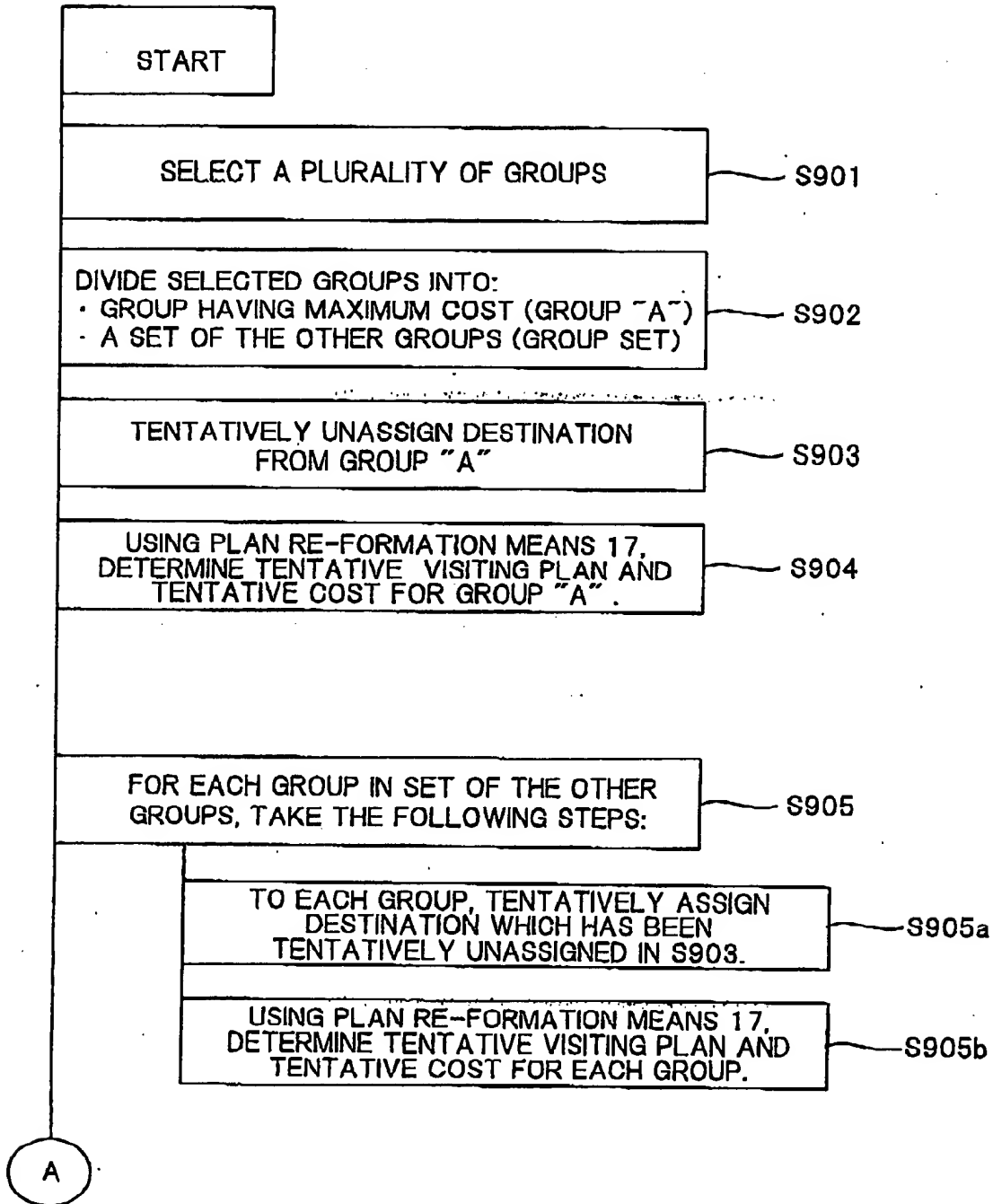


FIG10

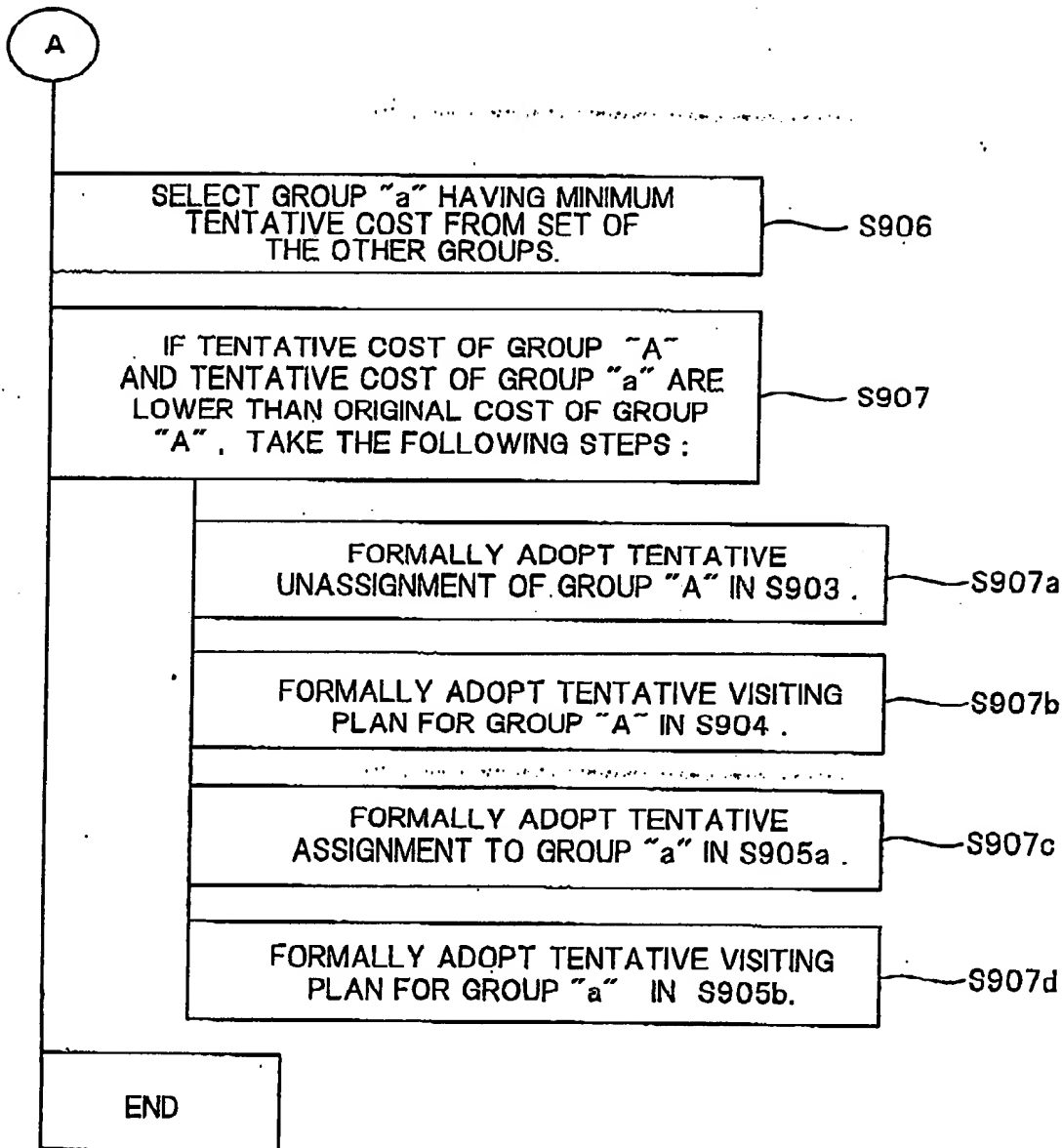


FIG. 11

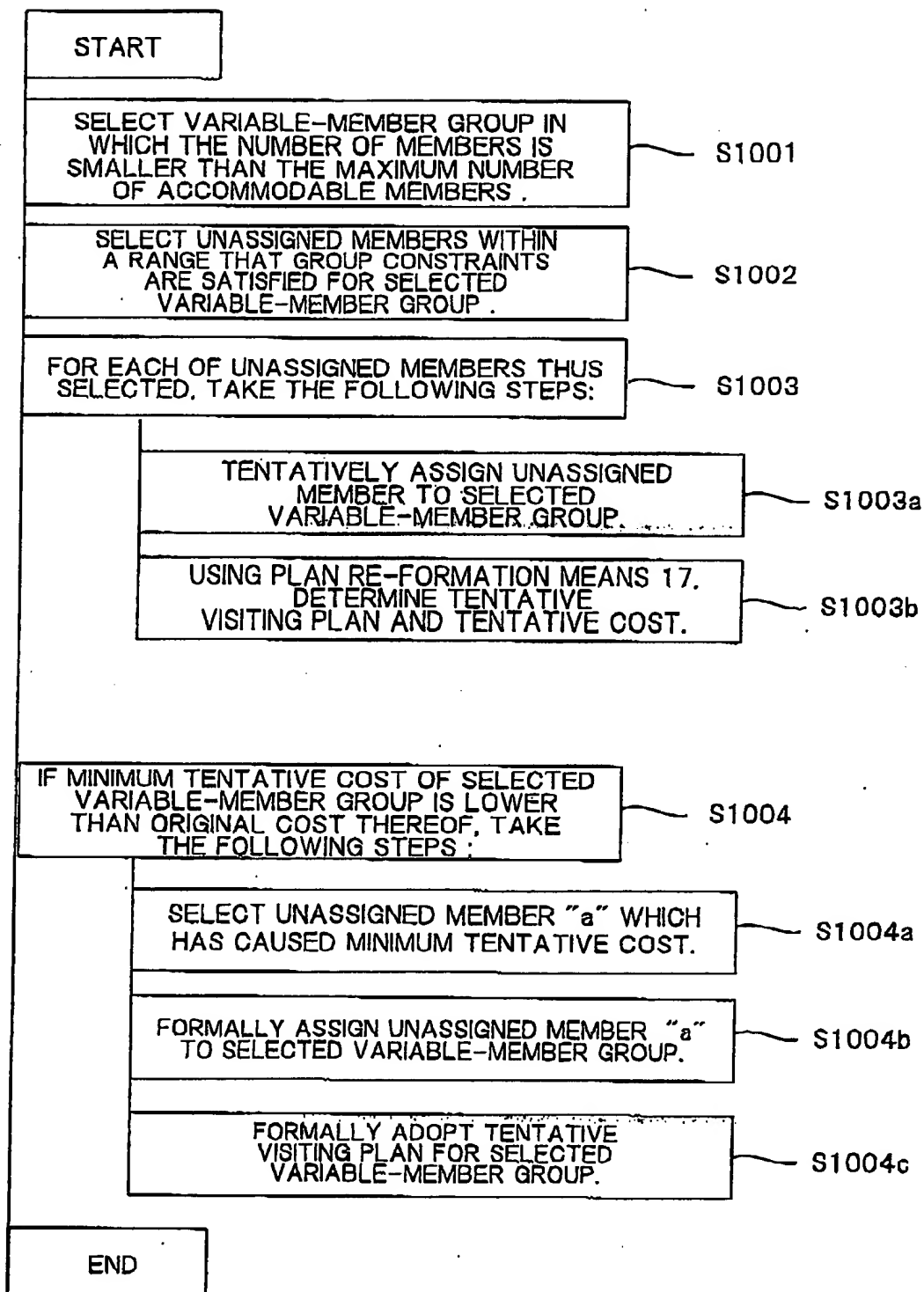


FIG. 12

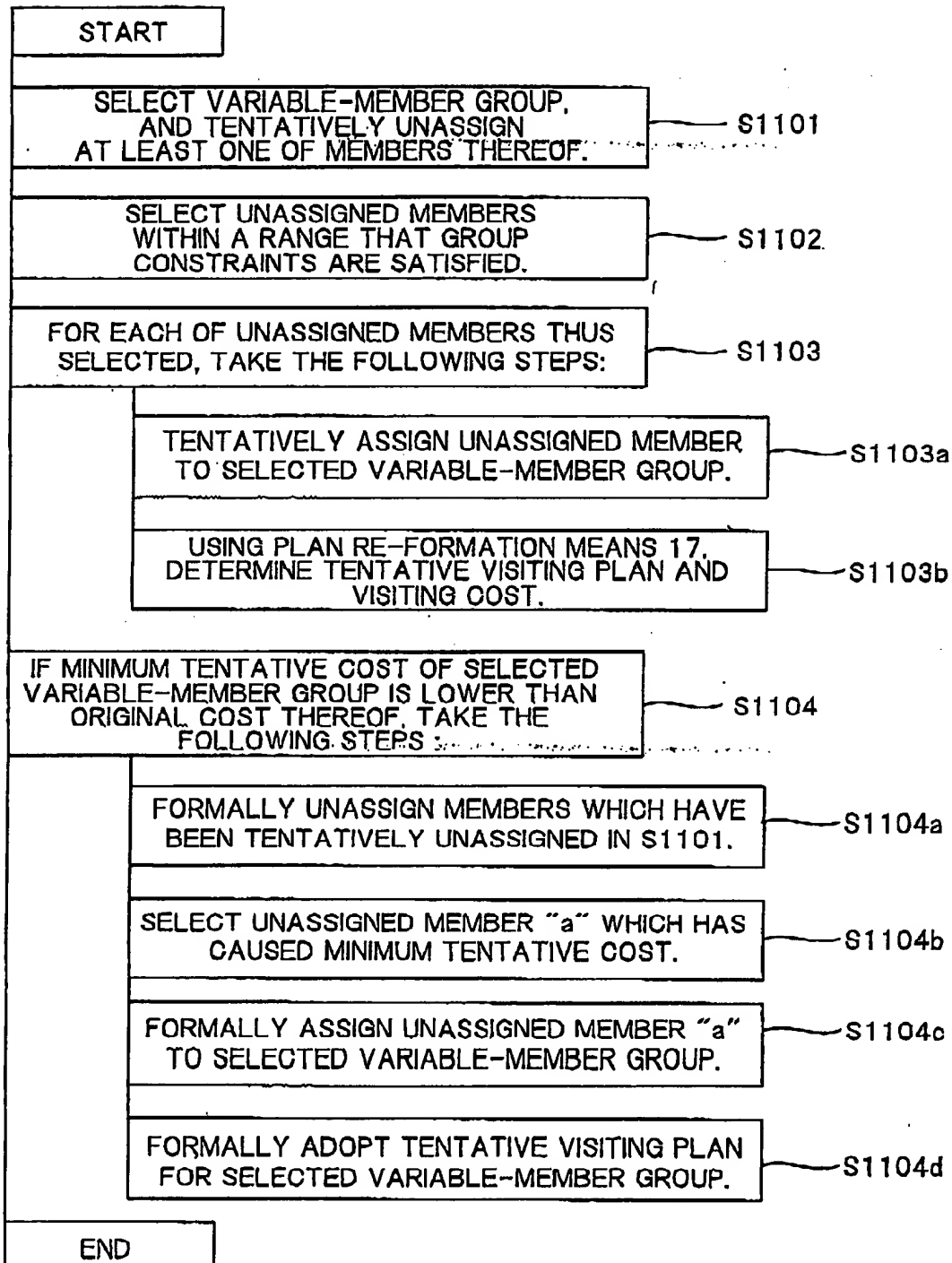


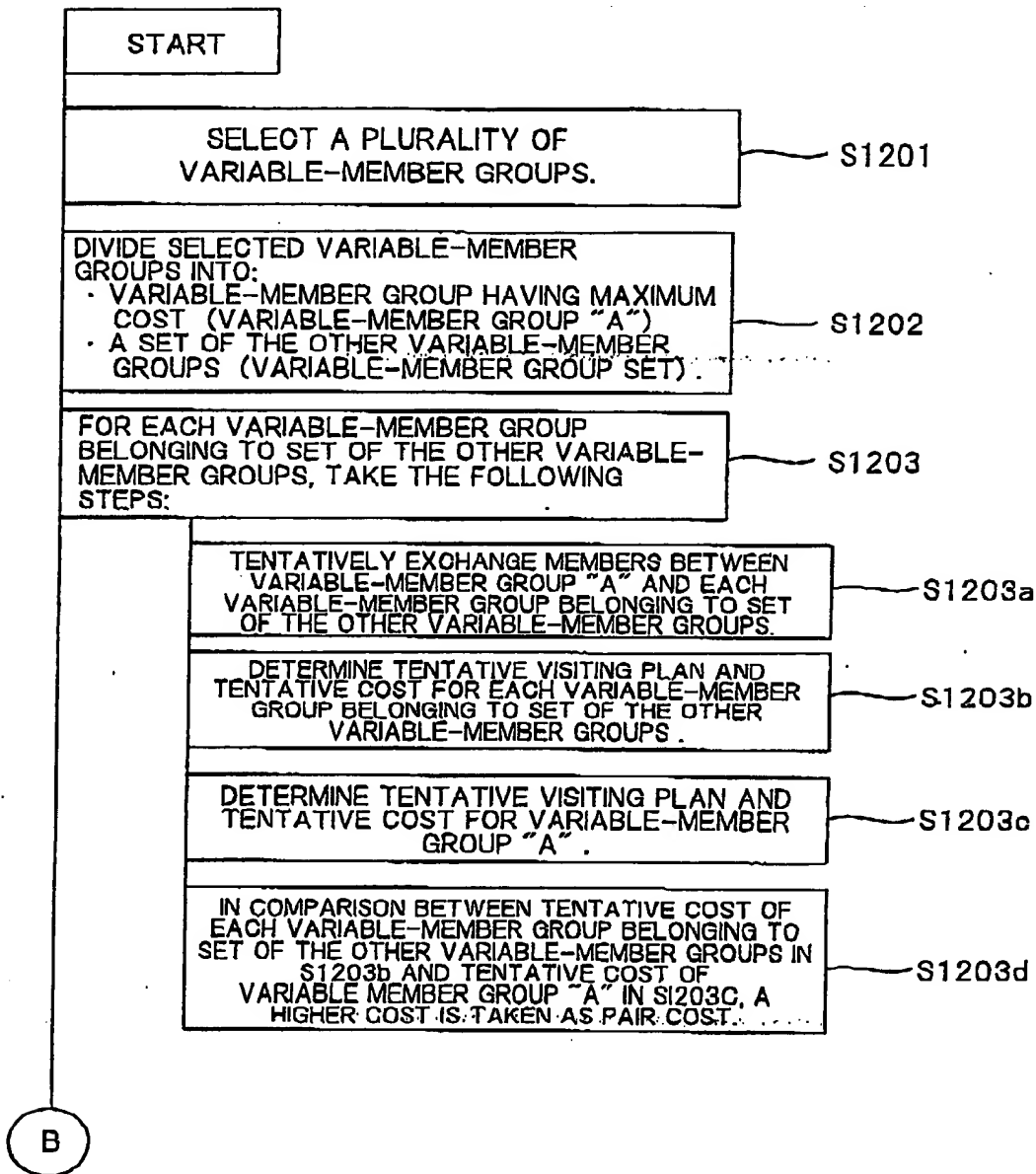
FIG. 13

FIG. 14